

ABSTRACT

An apparatus for winding, in the form of a quadrupole, an optical fiber used for forming a sensor coil of a fiber optic gyroscope. A center shaft is supported by a pair of support sections. A cylindrical spool is fitted around the center shaft. A pair of winding disks are arranged adjacent to both ends of the spool so that they can be rotated about the center shaft. A pair of reels are mounted to facing surfaces of the winding disks so that both halves of the optical fiber to be wound on the spool can be wound on the reels, respectively. The winding disks can be rotated at the same velocity in opposite directions. The cylindrical spool is installed to be reciprocated along an axis of the center shaft. The respective reels mounted to the winding disks are spaced apart from each other by a predetermined interval.